Epson® PowerLite® Home 10+

Home Theater Projector • Projecteur cinéma maison

User's Guide
Guide de l'utilisateur

3LCD

CPD-17904R2

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Important Safety Information

Follow these safety instructions when setting up and using the projector:

- Never look into the projector lens when the lamp is turned on; the bright light can damage your eyes. Never let children look into the lens when it is on.
- Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages inside the projector can severely injure you.
- Except as specifically explained in this *User's Guide*, do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- The projector and its accessories come packaged in plastic bags. Keep plastic bags away from small children to avoid any risk of suffocation.
- Don't place the projector on an unstable cart, stand, or table. Also, don't use the projector near water or sources of heat.
- Use the type of power source indicated on the projector. If you're not sure of the power available, consult your dealer or power company.
- Place the projector near a wall outlet where the plug can be easily unplugged.
- Don't insert the plug into an outlet with dust present, and insert the plug firmly into the outlet. Failure to do so could result in sparks or fire.
- Don't overload wall outlets, extension cords, or integral convenience receptacles. This can cause fire or electric shock.
- Don't block the slots and openings in the projector case. They provide ventilation and prevent the projector from overheating. Don't operate the projector on a sofa, rug, or other soft surface, or in a closed-in cabinet unless proper ventilation is provided.
- Never push objects through the cabinet slots or spill liquid into the projector.
- Unplug the projector from the wall outlet and refer servicing to qualified service personnel under the following conditions: when the power cord or plug is damaged or frayed; if liquid has been spilled into the projector, or if it has been exposed to rain or water; if it doesn't operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service; if it has been dropped or the housing has been damaged.
- Don't place the projector where the cord can be walked on. This may result in fraying or damage to the plug.

- Unplug the projector from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- This product includes a lamp component that contains mercury (Hg). Please consult your state and local regulations regarding proper disposal or recycling, and do not place in the trash.
- Unplug the projector during lightning storms or when not in use for extended periods.
- Don't place the projector or remote control on top of heat-producing equipment.
- If you use the projector in a country other than where you purchased it, use the correct power cord for that country.
- Don't stand on the projector or place heavy objects on it.
- Don't use the projector outside of the required temperature range of 41 to 95 °F (5 to 35 °C). Doing so may cause an unstable display and could lead to projector damage.
- Don't store the projector outside of the required temperature range of 14 to 140 °F (-10 to 60 °C) or in direct sunlight for long periods of time. Doing so may cause damage to the case.

Remote Control Information

You can operate the projector by remote control via a line-of-sight infrared (IR) receiver at the front and rear of the projector. The projector may not respond to remote control commands under the following conditions:

- There is an object between the remote control and the IR receiver on the projector.
- Ambient light is too bright.
- Certain types of fluorescent lighting are used.
- Other equipment that emits infrared energy, such as a radiant room heater, is in the room.

If you experience problems, try the following:

- The remote control's battery may be low on power; replace it.
- Dim the ambient lighting and/or turn off any fluorescent lights.
- Close any window coverings and/or move the projector out of direct sunlight.
- Turn off other equipment that emits infrared energy.

Presenting the Epson PowerLite Home 10+

The Epson® PowerLite® Home 10+ Theater Projector lets you enjoy high-quality projection in the relaxing environment of your own home. It offers these powerful features:

- Adjustable color modes with built-in cinema filter for great viewing
- 16:9 LCD panel for wide format projection
- Five setup configurations, including front or rear projection and ceiling mounted installation
- Short lens focus; you can project an 80-inch diagonal image with the projector just 6.6 feet away
- 800:1 contrast ratio
- Extra parental control through the projector's child lock option
- Lock port for optional Kensington® MicroSaver® anti-theft device
- Toll-free two-year priority technical support

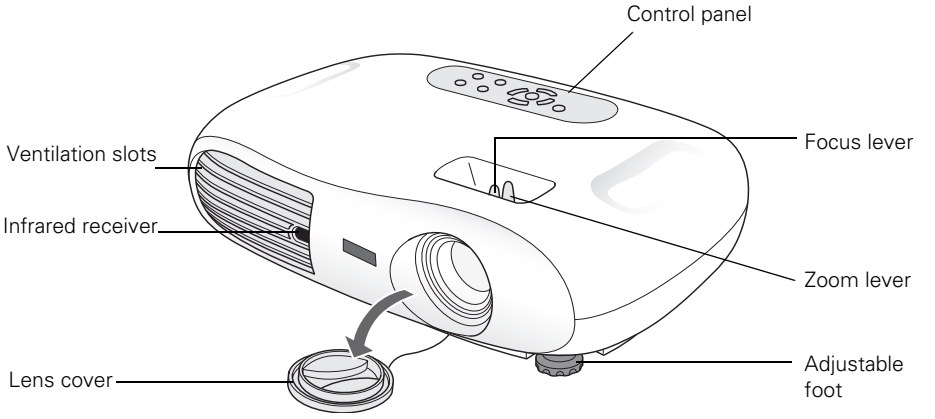
Registration and Warranty

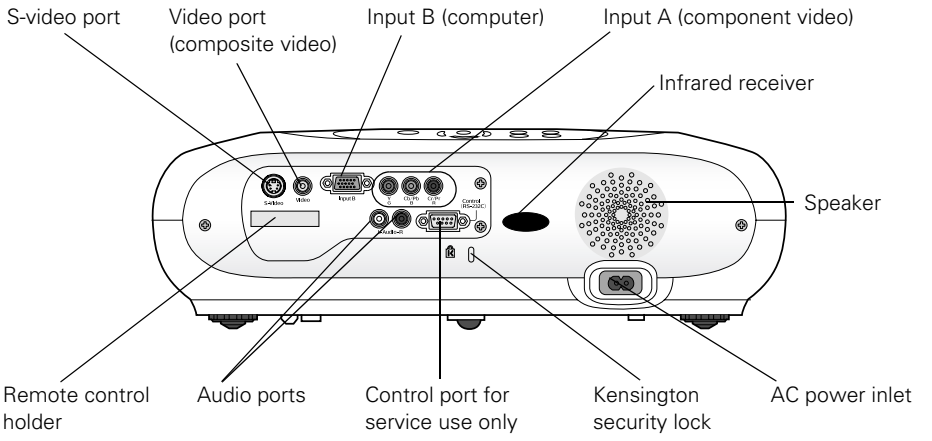
The Epson PowerLite Home 10+ projector comes with a basic two-year carry-in warranty. For details, see page 41.

In addition, for customers who register their projector, Epson offers free Extra Care℠ Home Service. In the unlikely event of an equipment failure, you won't have to wait for your unit to be repaired. Instead, Epson will ship you a replacement unit anywhere in the United States or Canada, usually via overnight delivery. See your *Extra Care Home Service* brochure for details.

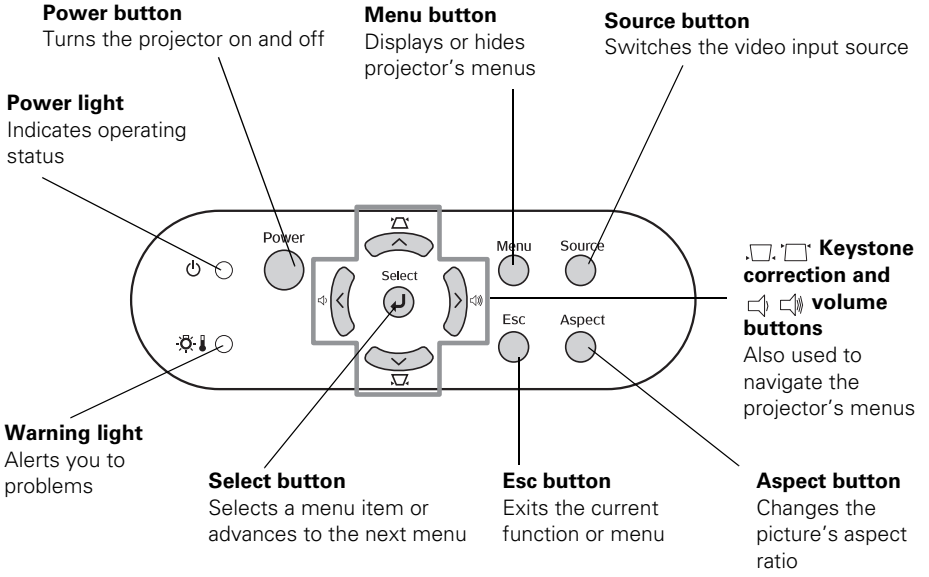
To register, simply fill out the registration card that came with your projector and mail it to Epson. Or you can register online at http://www.epson.com/webreg. Registering also lets you receive special updates on new accessories, products, and service.

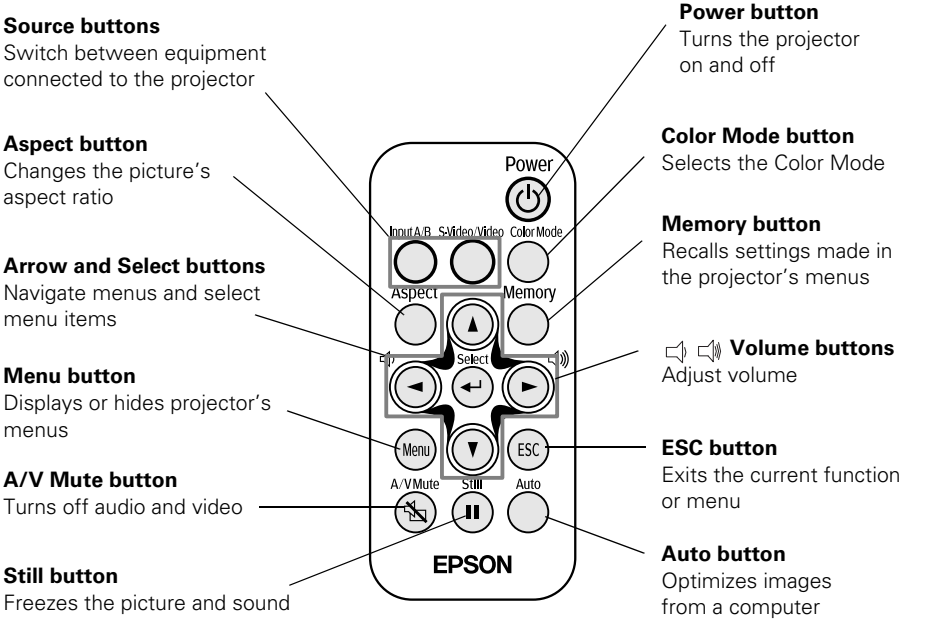
Projector Parts





Projection Controls





Using This Manual

See the *Quick Setup* sheet to connect the projector to your video or computer equipment. This book contains all the information you need to use the projector, in addition to maintenance instructions, troubleshooting tips, important safety instructions, specifications, and warranty information.

Please follow these guidelines as you read through the manual:

Warnings: Must be followed carefully to avoid bodily injury.

Cautions: Must be observed to avoid damage to your equipment.

Notes: Contain important information about your projector.

Tips: Contain helpful projection tips.

Getting More Information

Need additional help? Take advantage of Epson's automated support services 24 hours a day at http://support.epson.com. Use this site to download FAQs or product information and e-mail your questions to Epson support.

If you need more help, you can use the Epson PrivateLine® Support service. Call (800) 637-7661 and enter the PIN on the PrivateLine support card that came with your projector.

Supported Devices

You can connect the projector to any of the following video sources: VCR, DVD player, DTV decoder, HDTV tuner, videodisc player, cable/satellite box, TV, video game console, audio/video receiver, camcorder, personal video recorder, digital camera, or laser disc player. You can also connect to a desktop or laptop PC or Apple® Macintosh® system.

The projector supports composite video, S-video, and component video, and it automatically senses the video format (HDTV, NTSC, PAL, or SECAM).

The *Quick Setup* sheet explains how to connect your projector to your other equipment. For cable requirements, see the next section.

Cable Requirements

The projector does not come with any cables. However, you may already have the ones you need, or you can purchase them from Epson, as described in the next section.

- To receive a composite video signal, you need an RCA video cable. (One is usually provided with your video equipment.)
- To receive an S-video signal, you need an S-video cable. (One is usually provided with your video equipment.)
- To receive a component video signal from a DVD player, HDTV tuner, or other video device, you need a component video cable.
- To connect a computer to the projector, you need a VGA computer cable.
- Some older PowerBooks® and Macintosh desktop models may need a Macintosh adapter set. (You can purchase this from Epson; see the next section for details.) Older iMac® systems may need a special adapter to provide a VGA output port; see your computer dealer.

Optional Accessories

Epson provides the following optional accessories for the projector:

Product	Part number
Replacement lamp	V13H010L29
Air filter replacement	V13H134A04
Remote control	V12H007T12
Customized carrying cases: Samsonite® wheeled soft case Samsonite soft shoulder bag	 ELPKS35 ELPKS43
Ceiling mount Suspension adapter False ceiling plate	ELPMB42 ELPMBAPL ELPMBFCP
Kensington security lock	ELPSL01
Projection screens: 50-inch portable screen 60-inch portable pop-up screen 80-inch portable pop-up screen	 ELPSC06 ELPSC07 ELPSC08
Macintosh adapter set (includes monitor adapter and desktop adapter)	ELPAP01
S-video cable	ELPSV01

You can purchase many of these accessories from your dealer, by calling Epson at (800) 873-7766, or by visiting the Epson Store℠ at www.epsonstore.com (U.S. sales only). In Canada, please call (800) 463-7766 for dealer referral.

Using the Projector

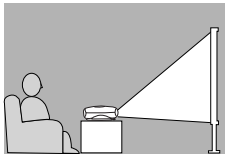
Follow the instructions in this section to choose a location for the projector, adjust the image and volume, turn off picture and sound, freeze the action, or use the projector menus.

Choosing a Location

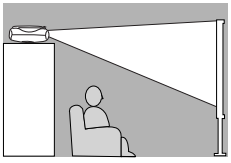
The distance from the projector to the screen or wall determines the size of the picture. The picture will be larger when you place the projector further from the screen. See the *Quick Setup* sheet for details about the relationship between distance and picture size.

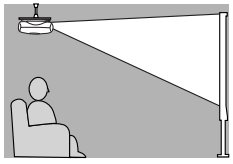
You can also choose from five different viewing setups. If you install the projector in a rear or overhead position, you'll need to choose the correct Projection option (identified below) from the projector's Setting menu.

- **Table:** For temporary front projection, place the projector on a low table in front of the screen. If possible, place the projector directly in front of the screen, facing the screen squarely. The base of the lens should be about level with the bottom of the screen.
- **Shelf:** You can also place the projector on a high shelf behind you. Attach the three rubber feet that came with the projector to the top of the projector, then place the projector upside-down. After you turn on the projector, choose Front/Ceiling for the Projection option in the Setting menu.
- **Ceiling:** You can purchase special equipment from Epson to attach the projector to your ceiling (see page 12 for ordering information). If you choose this setup, professional installation is recommended. Choose Front/Ceiling for the Projection option.

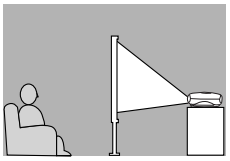


Table

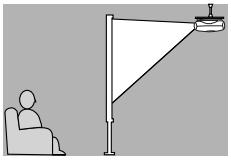

Shelf


Ceiling

- **Rear:** You can also set up your projector behind a translucent screen. Choose Rear for the Projection option.
- **Rear/Ceiling:** Professional installation is recommended if you choose to attach the projector to the ceiling behind a translucent screen. (See page 12 for information about ordering ceiling mounting equipment.) Choose Rear/Ceiling for the Projection option.



Rear



Rear/Ceiling

Adjusting the Picture

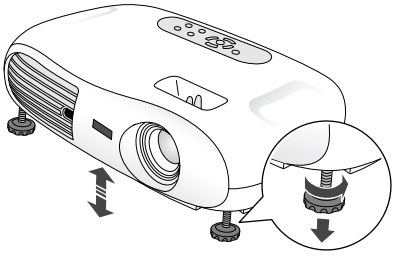
Follow the steps on the *Quick Setup* sheet to connect the projector to your equipment and turn it on. Be sure to follow these guidelines when turning the projector on or off:

- Turn your video equipment on or off before you turn your projector on or off. (If you're attaching the projector to a computer, turn the projector on or off first.)
- Press the ⏻ Power button on the remote control to turn the projector on or off.
- Never unplug the projector when the ⏻ power light on the projector's control panel is green or flashing orange.

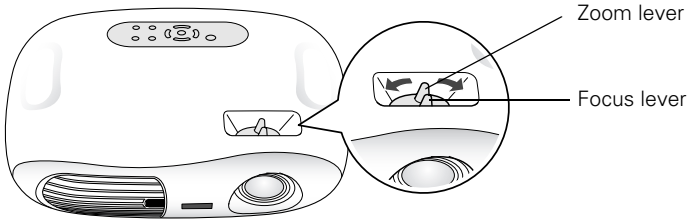
Once you see your picture, you may need to make certain adjustments.

Note: If you don't see a picture, you may need to change the image source. See page 33 for details.

1. To raise the picture, turn the projector's front feet.



2. Rotate the focus ring to sharpen the picture, or the zoom ring to reduce or enlarge it.



3. If your image looks like ▭ or ▭, press the ▸▭◂ and ▾▭▾ buttons on the projector's control panel until the image is corrected.
4. To optimize color settings, press the Color Mode button on the remote control to choose from these four pre-set color modes:
   - Dynamic
     For projecting in bright rooms; images will have greater color intensity.
   - Living Room
     For projecting in rooms with a lot of ambient light; images retain natural color.
   - Theatre
     For projecting movies or images with dark scenes.
   - Theatre Black
     For projecting images in a dark room; lamp brightness decreases and image contrast increases.
5. To change the picture's aspect ratio (ratio between length and height), press the Aspect button on the projector or remote control. Choose from these settings:
   - Normal
     Maintains the aspect ratio of the projected image on a 16:9 (wide-screen format) screen; when you project 4:3 images, black bands appear on the sides.
   - Squeeze
     Best for projecting wide-screen format (16:9) images; when images output in 4:3 format are projected, they are elongated horizontally.
   - Zoom
     Crops images output in 4:3 format at the top and bottom and then projects them in 16:9 format.

Adjusting the Volume

Use the control panel to adjust the volume of the projector's audio system or speakers connected directly to the projector's Audio ports:

- Press the button to decrease the volume.
- Press the button to increase the volume.

Turning Off the Picture and Sound

You can use the A/V Mute button on the remote control to darken your screen and turn off the sound. This is useful if you pause the video.

- To turn off the picture and sound, press the A/V Mute button. The screen goes dark.
- To turn the picture and sound back on, press the A/V Mute button again.

Use your video device's controls to pause the video. If you don't pause it, it continues to play even though you don't see or hear it. When you press the A/V Mute button again, playback won't resume where you stopped it.

Freezing the Action

To freeze the action temporarily on the screen, press the Still button on the remote control. This freezes any moving images until you press the Still button again.

Like the A/V Mute feature, the video and audio input continue while the moving images are paused, so when you press the Still button again, playback doesn't resume exactly where you stopped it.

Using the Projector's Menu System

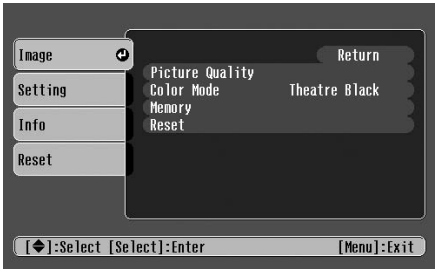
You can use the projector's on-screen menus to fine-tune the image quality, check lamp usage, and customize projector features:

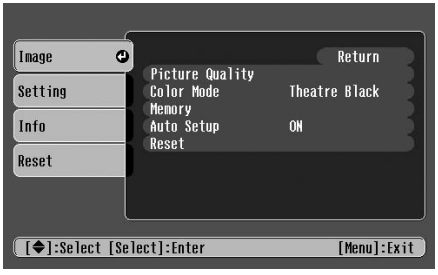
- The Image menu controls the look and quality of the picture. It offers several ways to adjust the color and improve the sharpness and clarity of the picture.
- The Setting menu lets you set the child lock or sleep mode, adjust the position and size of the picture, select front or rear projection, and customize other projector features.
- The Info menu provides information about lamp status and video or computer settings.
- The Reset menu lets you reset the lamp timer and the projector's memory, or return all the menu settings to their factory defaults.

You can use the buttons on the projector or remote control to display the menus and change settings. Follow the steps in the next section.

Changing Menu Settings

1. Press the Menu button on the projector or remote control. You see one of the following screens (the screen you see depends on the equipment you've connected):





   The four menus are shown on the left, and the options available to the highlighted menu are shown on the right.

   Note: If nothing is connected to the projector, some options may not be available.

2. Press the up or down arrow button on the remote control or the ▸ or ▾ button on the projector to move to the menu you want. When your menu is highlighted, press the Select button. You see the options for the selected menu on the right. The highlight moves to the first option in the list.

3. Press the up or down arrow button on the remote control or the ▲ or ▼ button on the projector to move through the list of options. When the option you want to change is highlighted, press the Select button.

   You may see a list of settings, a submenu providing additional options, or a line menu or slider bar similar to the one below:

4. If you see a list of settings, use the arrow buttons on the remote control or the ▲ or ▼ button on the projector to move to the setting you want, then press the Select button. Enabled settings are indicated by a green light, while disabled ones are gray.

   If an option has a submenu, press the Select button to display it, then select the setting you want.

   If you see a line menu or slider bar, press the left or right arrow button on the remote control or the ◀ or ▶ button on the projector to change the setting.

5. Press the Esc button to return to the previous menu.
6. Press the Menu button to exit the menu system.

Adjusting the Appearance of the Picture

The Image menu lets you make a variety of adjustments to the projected image to get the best color and quality.

The options available depend on which type of equipment is connected to the projector:

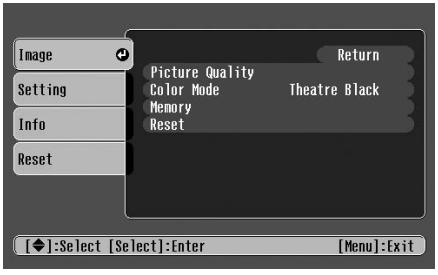


Image menu for component video, composite video, or S-video

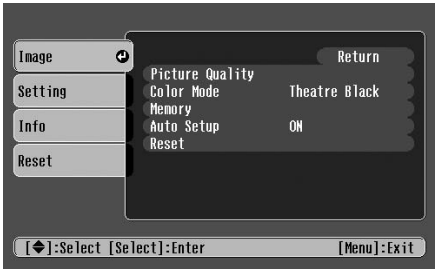


Image menu for computer or RGB video

1. Press the Menu button. You see the menu screen.
2. Press the Select button to select the Image menu. Then press the Select button again to select Picture Quality.
3. Use the arrow buttons on the remote control or the , , or buttons on the projector to set the following options:
   - Brightness
     Adjusts the brightness of the picture. Increase (+) the setting to make the picture brighter, or decrease (-) the setting to reduce brightness.
   - Contrast
     Adjusts the contrast between colors or shades in the picture.
   - Sharpness
     Adjusts the sharpness of the picture.
   - Saturation (video only)
     Adjusts the color depth of the picture.
   - Tint (component or NTSC video only)
     Adjusts the tint or hue of colors in the picture.
   - Color Temperature
     Adjusts red or blue tones. A lower color temperature produces a picture with more red, while a higher color temperature produces more blue and sharper color tones.
   - Flesh Tone
     Adjusts the balance of green to magenta in the image.
   - Tracking (computer images only)
     Removes unwanted vertical lines from a computer image by matching the projector's internal clock to the computer display signal.
   - Sync (computer images only)
     Corrects fuzziness by synchronizing the projector with the tracking signal sent from the computer.
4. Select the Color Mode option and choose from these settings:
   - Dynamic
     For projecting in bright rooms; images will have greater color intensity.
   - Living Room
     For projecting in rooms with a lot of ambient light; images retain their natural color.

- Theatre
  For projecting movies or images with dark scenes.
- Theatre Black
  For projecting in a dark room; lamp brightness decreases and image contrast increases.

5. To save the adjustments you made in the Image menu, select the Memory option. Select Memory 1 to save your first set of adjustments. Later you can recall these settings by pressing the Memory button on the remote control.

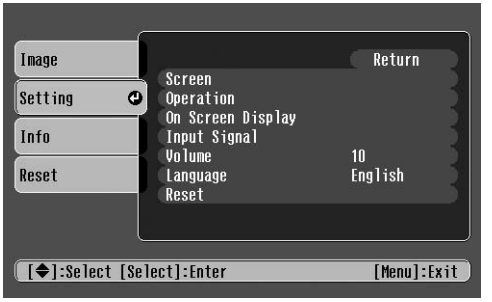
   Note: You can save a second set of adjustments by selecting Memory 2. Press the Memory button on the remote control twice to select this second set.

6. Press Esc or Menu to exit the menu system.

Customizing Projector Operation

You can use the Setting menu to set the child lock or sleep mode, adjust the position or size of the picture, select front or rear projection, and customize other projector features.

1. Press the Menu button to display the menu screen.
2. Press the down arrow button on the remote control or the ▽ button on the projector to highlight the Setting menu, and then press the Select button. You see these settings:



3. Press the Select button again to select the Screen option.

4. Use the arrow buttons on the remote control or the ▸□, ▾□, ◁) or ◁)) buttons on the projector to set these options:

   - Position
     See "Repositioning the Picture" on page 22.
   - Zoom Caption
     Adjusts both the length of the picture and its vertical position on the screen. You can adjust this function only when you've selected the Zoom aspect ratio.
   - Keystone
     Corrects vertical keystone distortion of the image (when your image looks like □ or □). This procedure makes the image smaller.
   - Projection
     Selects the projection method, as follows:

Setting	Projector position
Front	Projector is in front of the screen
Front/Ceiling	Projector is in front of the screen, positioned upside-down on a shelf or mounted upside-down on the ceiling
Rear	Projector is behind the screen
Rear/Ceiling	Projector is behind the screen, mounted upside-down from the ceiling

   - Setup Level (for component video, S-video, and NTSC video only)
     If you are using the projector with non-standard video equipment that has different black level settings, use this setting to adjust the level of black in the image. See the documentation that came with your video equipment for more information.

5. Select the Operation option to make changes to these settings:

   - Sleep Mode
     When sleep mode is on, the projector turns off the lamp if it has not received any input signals for the specified amount of time (5, 10, or 30 minutes). You can also turn sleep mode off.
   - Child Lock
     When this feature is on, the projector will not come on unless you press and hold the ⏻ Power button on the control panel for three seconds. (The remote control operates normally.)

6. Select the On Screen Display option to make changes to these settings:
   - Message
     Turn this option off if you don't want to display the No Signal message or the name of the input source or color mode. Warning messages are still displayed.
   - Background Color
     Selects the screen color to display (blue or black) when you press the A/V Mute button on the remote control.
   - Startup Screen
     Turn on this option to display the Epson logo whenever the projector starts.
7. Select the Input Signal option to configure the input signal from your video equipment:
   - Video Signal (composite or S-video signals only)
     Leave this set at Auto unless your input source is N-PAL format or the documentation for your video equipment specifies a setting.
   - Input A (component and RGB video signals only)
     Specifies the format for the video source connected to the Input A ports. Select either Component or RGB Video.
8. Select the Volume option to adjust the volume of the projector's audio system or speakers connected to the projector's Audio ports.
9. Select the Language option to choose the language you want to use for the projector menus.

Repositioning the Picture

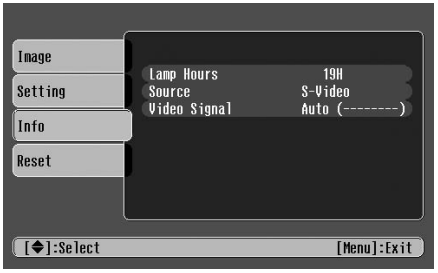
Follow these steps to move the picture to a different position on the screen:

1. Press the Menu button to display the menu screen.
2. Press the down arrow button on the remote control or the button on the projector to highlight the Setting menu. Then press Select.
3. Select the Screen option, then select the Position option. You see a positioning screen.
4. Use the arrow buttons on the remote control or the , , or buttons on the projector to move the image left, right, up, or down.
5. When the image is positioned the way you want it, press the Menu button to exit.

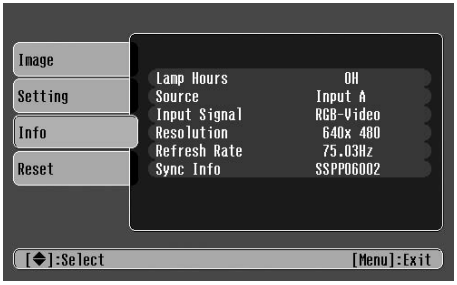
Viewing Lamp Usage and Other Information

Use the Info menu to view information about the display settings of your input source and the number of hours the lamp has been used.

1. Press the Menu button to display the menu screen.
2. Press the down arrow button on the remote control or the ▸□◂ button on the projector to highlight the Info menu. Then press Select. If the projector is connected to video equipment, you see these settings:



If the projector is connected to a computer, you see these settings:



The life span of the lamp is about 3000 hours if the color mode is consistently set to Theatre Black, and 2000 hours if any other color mode is used. If the number shown is close to the limit, make sure you have a spare lamp handy.

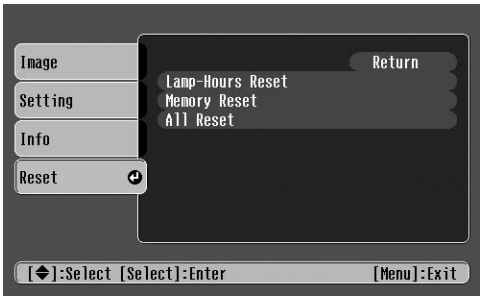
After you change the lamp, you need to reset the lamp timer. See “Replacing the Lamp” on page 28 and “Resetting the Lamp Timer” on page 30.

Note: The Lamp Hours shows 0H until you've used the lamp for at least 10 hours.

Restoring the Default Settings

The Reset menu lets you reset the lamp timer and the projector's memory, or return all the projector settings to their factory default values.

1. Press the Menu button to display the menu screen.
2. Press the down arrow button on the remote control or the ▸□◂ button on the projector to highlight the Reset menu. Then press Select. You see this menu:



3. Change any of the following settings:
   - Lamp-Hours Reset
     See page 30 for detailed information.
   - Memory Reset
     Resets all settings stored in the projector's memory.
   - All Reset
     Resets all settings to their factory default values. The only settings not affected by this option are input signal, language, lamp hours, and memory.

Caring for the Projector

Your projector needs little maintenance. All you need to do on a regular basis is keep the lens clean. You also need to clean the air filter periodically to prevent overheating.

> **Warning:** Before you clean any part of the projector, turn it off and unplug the power cord. Never open any cover on the projector, except the lamp and filter covers. Dangerous electrical voltages in the projector can injure you severely. Do not try to service this product yourself, except as specifically explained in this *User's Guide*.

The only parts you should replace are the lamp and air filter. If another part needs replacing, contact your dealer or a qualified servicer.

Follow the instructions in this section to clean the lens and projector case, change the remote control's battery, clean and replace the air filter, replace the lamp, and store or transport the projector.

Cleaning the Lens

Clean the lens whenever you notice dirt or dust on the surface.

- Use a canister of compressed air to remove dust.
- To remove dirt or smears, use lens-cleaning paper. If necessary, moisten a soft cloth with lens cleaner and gently wipe the lens surface.

  Caution: Never rub the lens with abrasive materials.

Cleaning the Projector Case

Before you clean the case, turn off the projector and unplug the power cord.

- To remove dirt or dust, wipe the case with a soft, dry, lint-free cloth.
- To remove stubborn dirt or stains, moisten a soft cloth with water and a neutral detergent. Then wipe the case.

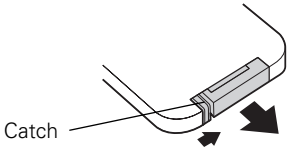
  Caution: Never use wax, alcohol, benzene, thinner, or other chemical detergents. These can damage the case.

Changing the Remote Control's Battery

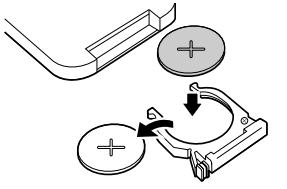
You can obtain a replacement CR2025 lithium battery commercially.

Warning: Keep batteries away from children. If a child swallows the battery, contact your doctor immediately.

1. Press the catch in as you pull the battery holder out.



2. Remove the old battery and insert the new one. The plus mark (+) on the battery should be face up.



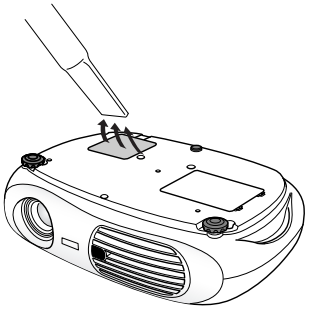
3. Reinsert the battery holder in the remote control. Press in until it clicks into place.

Cleaning and Replacing the Air Filter

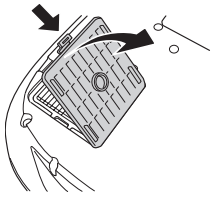
Clean the air filter on the bottom of the projector after every 100 hours of use. If it's not cleaned periodically, it can become clogged with dust, preventing proper ventilation. This can cause overheating and damage the projector.

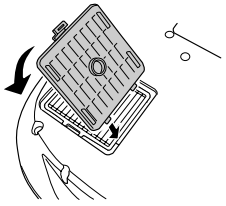
1. Turn off the projector and wait for the ⏻ power light to stop flashing.
2. Unplug the power cord and disconnect any cables.
3. Turn the projector over. Then use a small vacuum cleaner designed for computers and other office equipment to clean the filter, as shown. If you don't have one, gently clean the filter using a very soft brush (such as an artist's camel-hair brush).

   If the dirt is difficult to remove or the filter is broken, replace it. Contact your dealer or call Epson at (800) 873-7766 and ask for part number V13H134A04. In Canada, call (800) 463-7766 for dealer referral.



4. If you need to replace the filter, press the tab in and lift the cover up.
5. Remove the old filter and replace it with a new one.
6. To replace the cover, insert the tabs and press down until the cover clicks into place.

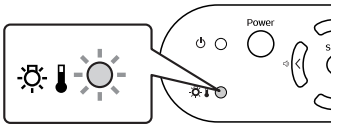




Replacing the Lamp

The lamp lasts up to 3000 hours when the projector is used in Theatre Black mode. Lamp life results vary depending upon environmental conditions and usage. Turn the projector off when not in use. Continuous 24-hour-a-day use may reduce the overall life of this product. It's time to replace the lamp when:

- The projection image gets darker or starts to deteriorate.
- The projector's warning light flashes red.
- The message Replace the lamp appears on the screen.



Contact your dealer or call Epson at (800) 873-7766 in the United States for a replacement lamp. Request part number V13H010L29. In Canada, call (800) 463-7766 for dealer referral.

Be sure to read the "Important Safety Information" on page 5 before replacing the lamp.

Warning: Let the lamp cool before replacing it. If the lamp breaks, handle the shards carefully to avoid injury. If your projector is mounted on the ceiling, take it down before beginning this procedure.

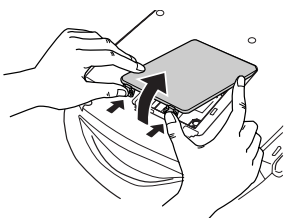
The lamp component contains mercury. Please consult your state and local regulations regarding proper disposal or recycling, and do not place in the trash.

Caution: Never touch the lamp with your bare hands; the invisible residue left by the oil on your hands may shorten the lamp life. Use a cloth or gloves to handle the new lamp.

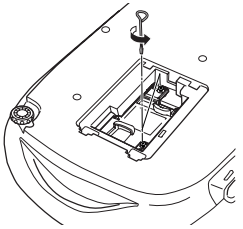
Note: Although an air filter is included with the lamp, you cannot use it with the projector. If you need to replace the air filter, ask for part number V13H134A04 when you contact your dealer or Epson. See page 27 for details on ordering.

Follow these steps to replace the lamp:

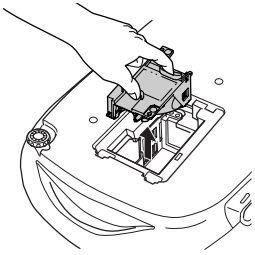
1. Turn off the projector and wait for the ⏻ power light to stop flashing.
2. Unplug the power cord and any cables. If the projector has been on, let it cool for at least an hour.
3. Press in on the two tabs and lift the lamp cover up and off.



4. Use a small screwdriver to loosen the two silver screws holding the lamp in place. (You can't remove these screws.)



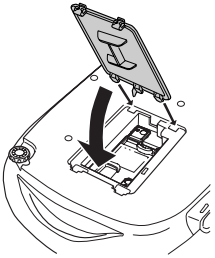
5. Grasp the lamp as shown and pull it straight out.



6. Gently insert the new lamp and tighten its screws.

   Caution: Don't touch the glass portion of the lamp assembly. Touching the glass could result in premature lamp failure.

7. To replace the lamp cover, insert the tabs and then snap the cover into place. (The projector won't work if the lamp cover is loose.)



After replacing the lamp, you need to reset the lamp timer, as described in the next section.

Resetting the Lamp Timer

1. Press the Menu button on the projector or remote control.
2. Highlight the Reset menu and press the Select button.
3. Select Lamp Hours Reset.
4. When you see a prompt asking whether you want to execute the command, highlight Yes and press the Select button.
5. When you're finished, press Esc or Menu.

The lamp usage timer doesn't register until you've used the lamp for at least 10 hours.

Storing the Projector

If you need to store the projector for awhile, do the following:

- Make sure the temperature and humidity of the storage area are within the recommended range for the projector (14 to 140 °F [-10 to 60 °C] and 10 to 90% relative humidity).
- Attach the lens cover and retract the feet.
- Remove the battery from the remote control.
- Package the projector in its original packaging or equivalent (as described in the following section).

Transporting the Projector

Note: Epson shall not be liable for any damages incurred during transportation.

The projector contains many glass and precision parts. If you need to transport it, follow these guidelines to prevent damage:

- When shipping the projector for repairs, use the original packaging material if possible. If you do not have the original packaging, use equivalent materials, placing plenty of cushioning around the projector. Be sure the carrier is capable of transporting fragile equipment and is aware that the projector is fragile.
- When you are hand-carrying the projector, use the recessed hand grips on the sides.

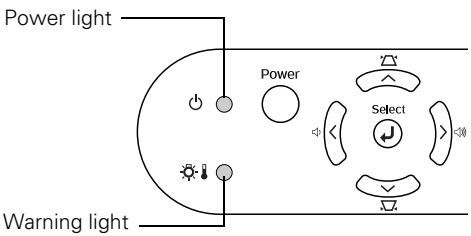
Problem Solving

This section explains how to interpret the projector's status lights, solve problems with the picture and remote control, and contact technical support.

What To Do When the Lights Flash

The lights on top of the projector indicate the projector's status and let you know when a problem occurs.

If the projector isn't working correctly, first turn it off, let it cool, and unplug it. Then plug the power cord back in and turn on the projector. If this doesn't solve the problem, check the status lights on top of the projector.



The ⏻ power light is orange.

The projector is in standby mode. Unplug it or press the ⏻ Power button to turn it on.

The ⏻ power light is flashing green.

The projector is warming up. Wait for the picture to appear.

The ⏻ power light is flashing orange and you can't turn on the projector.

The lamp is cooling down. Wait until the light stops flashing, then press the ⏻ Power button.

The ⏻ power light does not come on.

Make sure the power cord is connected securely both at the power outlet and the projector. If you've just replaced the lamp, make sure the cover is securely fastened.

The warning light is flashing orange.

High-speed cooling is in process. If the projector gets too hot again, projection stops automatically. Make sure there is plenty of space around and under the projector for ventilation. Clean or replace the air filter if necessary. See page 27 for details.

The warning light is red.

The projector is too hot, which turns off the lamp automatically. Let it cool for five minutes, then turn it back on. Make sure there is plenty of space around and under the projector for ventilation. Also, clean or replace the filter if necessary. See page 27.

The warning light is flashing red at half second intervals.

There's a problem with the lamp. First check the Info menu to see if you need to replace the lamp (see page 23). If that's not the problem, turn off the projector. When the ⏻ power light stops flashing, unplug the projector. Then take the lamp out to make sure it's not broken.

> **Warning:** Let the lamp cool before taking it out. If the lamp is broken, handle the shards carefully to avoid injury. If your projector is mounted on the ceiling, take it down before attempting to remove the lamp.

The warning light is flashing red at one second intervals.

- The lamp cover may be loose or off. Make sure it's securely fastened. See page 29.
- There is an internal problem. Turn off the projector and, when the ⏻ power light stops flashing, unplug it. Contact your dealer.

Solving Picture Problems

No picture appears on the screen.

- Check that the ⏻ power light is green, not flashing, and the lens cover is off. If you've just turned the projector off, let it cool down for a couple of minutes.
- The projector may be in standby (or sleep) mode. If the ⏻ power light is orange, press the ⏻ Power button to turn the projector on.
- Press the A/V Mute button on the remote control to make sure the picture hasn't been turned off temporarily.

- Try reconnecting both ends of your cable.
- Make sure your video equipment is on. If it isn't, turn the projector off, then turn it on again after you've turned on your video equipment.

You see a screen with the message No Signal **displayed.**

- Make sure your video equipment is turned on.
- Make sure your cable(s) are connected correctly, as described in the *Quick Setup* sheet.
- Press the Source button on the projector or the Input A/B or S-Video/Video buttons on the remote control to select the correct input source. Allow a few seconds for the projector to sync up.
- Check the settings in the Video Signal and Input A options in the Setting menu to make sure they're correct for your video equipment. See page 22 for details.

  If you're using a PC laptop:

- Press the function key that lets you display on an external monitor. It's often labeled with an icon such as 🖳/🖵, but it may also be labeled CRT/LCD. You may have to hold down the Fn key while pressing it. Check your laptop's manual or online help.

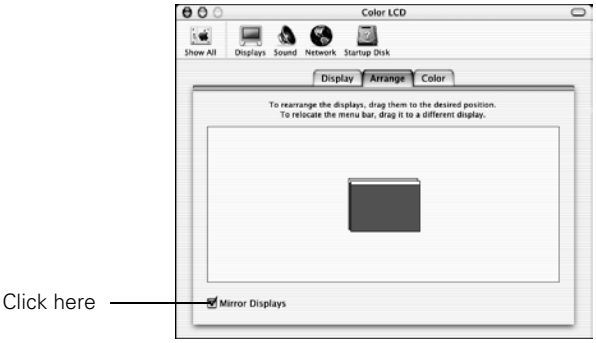
  On most systems, the 🖳/🖵 key lets you toggle between the LCD screen and the projector, or display on both at the same time. Allow a few seconds for the projector to sync up after pressing it.

- Depending on your computer's video card, you might need to use the Display utility in the Control Panel to make sure that both the LCD screen and external monitor port are enabled. See your computer's documentation for details.

  If you're using a Macintosh laptop with OS X:

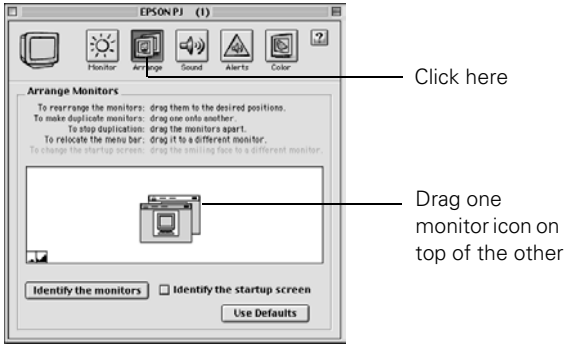
  1. Select System Preferences from the Apple menu and click Displays.
  2. Click Detect Displays.
  3. To display the entire desktop on both your projector screen and LCD screen, click the Arrange tab. (If you don't see this tab, make sure it isn't hidden by another window.)

4. Click Mirror Displays in the lower corner of the screen. One of the monitor icons automatically moves on top of the other.



If you're using a Macintosh laptop with OS 9.x or earlier:

1. From the Apple menu, select Control Panels, then click Monitors and Sound.
2. Click the Arrange icon, and then drag one monitor icon on top of the other.



If the Arrange option isn't available, you may need to select one of the Simulscan resolutions. Click the Monitor icon and then select a Simulscan resolution from the Resolution box. (Allow a few seconds for the projector to sync up.)

The picture is upside-down or reversed.

Change the setting for the Projection option in the Setting menu. See page 21.

Only part of the picture is displayed, or the picture is distorted.

- Press the Aspect button to select a different aspect ratio.
- Use the Position setting in the Setting menu to reposition the image on the screen. See page 22 for details.

The picture is trapezoid-shaped.

Press the ‹ and › buttons on the projector to correct the problem.

The picture contains static or noise.

- Make sure your cable is securely connected at both ends.
- Don't use an extension cable or a cable longer than 6 feet.
- If you're displaying the same image on your computer and projector screen, try turning off your laptop's LCD display.

The picture is blurry.

- There may be dirt on the lens. Clean the lens as described on page 25.
- Adjust the focus using the focus ring.
- Make sure the lens is not fogged by condensation. If you've just moved the projector from a cold environment, wait a couple of minutes before using it.
- Adjust the Sharpness setting on the Image menu (see page 19). If you're projecting from a computer, you may also need to adjust the Tracking and Sync settings.

You see vertical stripes, or the picture still looks blurry after trying the solutions in the previous section.

If you're projecting from a computer, press the Auto button on the remote control. This optimizes the projector's tracking and sync settings. If this doesn't work, change the Tracking and Sync settings in the projector's Image menu.

The colors on the screen don't look right.

- Press the Color Mode button on the remote control to move through the different color mode settings.
- Adjust the following settings in the Image menu: Brightness, Contrast, Saturation (video only), Tint (video only), Color Temperature, and Flesh Tone. See page 19.
- If the picture looks darker, you may need to replace the lamp.

Solving Remote Control Problems

The projector doesn't respond to remote control commands.

- Make sure you're within 20 feet of the projector, and within range of the projector's front or back sensor (approximately 30° left or right, and 15° above or below).
- You may need to replace the remote control's battery. See page 26 for details.
- Dim the room lights and turn off any fluorescent lights. Make sure the projector is not in direct sunlight.
- Turn off nearby equipment that emits infrared energy, such as a radiant room heater.

Where To Get Help

Epson provides technical assistance 24 hours a day at http://support.epson.com. Here you can access troubleshooting information, download product documentation, and receive technical advice through e-mail.

To use the Epson PrivateLine Support service, call (800) 637-7661 and enter the PIN on the Epson PrivateLine Support card that came with your projector. This is the fastest way of speaking to a live representative, and it's free. This service is available 6 AM to 6 PM, Pacific Time, Monday through Friday, for the duration of your warranty period.

You may also speak with a projector support specialist by dialing one of these numbers:

- U.S.: (562) 276-4394, 6 AM to 6 PM, Pacific Time, Monday through Friday
- Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday

Toll or long distance charges may apply.

Before you call, please have the following information ready:

- Product name (Epson PowerLite Home 10+)
- Product serial number (located on the bottom of the projector)
- Computer configuration, if you're connecting to a computer
- Description of the problem

You can purchase screens, carrying cases, or other accessories from Epson at (800) 873-7766 or by visiting the Epson Store at www.epsonstore.com (U.S. sales only). In Canada, please call (800) 463-7766 for dealer referral.

Specifications and Notices

General

Type of display	Poly-silicon TFT active matrix
Size of LCD panels	0.55 inch (14 mm) wide
Lens	F=1.7 to 2.1, f=13.9 to 21.4 mm
Resolution (native format)	854 × 480 pixels, 480p
Brightness	1200 lumens (ANSI)
Color reproduction	24 bit, 16.8 million colors
Contrast ratio	800:1
Image size	30 to 300 inches (0.76 to 7.6 m)
Projection distance	2.5 to 46.8 feet (0.76 to 14.3 m)
Internal sound system	1 W monaural
Zoom ratio	1:1.54
Optical aspect ratio	16.9
Noise level	38 dB (all color modes except Theatre Black) 29 dB (Theatre Black color mode)
Keystone correction	Vertical: -15 to +15°

Projection Lamp

Type	130 W UHE (Ultra High Efficiency
Lamp life	Approx. 2000 hours (all color modes except Theatre Black) Approx. 3000 hours (Theatre Black mode)

Note: Lamp life results will vary depending on environmental conditions and usage. Turn the projector off when not in use. Continuous 24-hour-a-day use may reduce the overall life of the product.

Remote Control

Range	Approx. 20 feet (6 m)
Battery	Lithium CR2025

Dimensions

Height	4.5 inches (114 mm)
Width	15.8 inches (402 mm)
Depth	11.6 inches (294 mm)
Weight	7.9 lb. (3.6 kg)

Electrical

Rated frequency	50/60 Hz AC
Power supply	100 to 120 VAC, 2.3 A 200 to 240 VAC, 1.0 A
Power consumption	Operating: 200 W at 100 VAC Standby: 5 W at 100 VAC

Environmental

Temperature	Operating: 41 to 95 °F (5 to 35 °C) Storage: 14 to 140 °F (-10 to 60 °C)
Humidity	Operating: 20 to 80% RH, non-condensing Storage: 10 to 90% RH, non-condensing

Safety

United States	FCC 47CFR Part 15B Class B (DoC) UL1950 Rev. 3
Canada	ICES-003 Class B CSA C22.2 No. 950-95 (cUL)
CE Marking	Directive 89/336/EEC EN 55022, EN 55024

Pixelworks™ DNX™ ICs are used in this projector.

Compatible Video Formats

The projector supports HDTV, NTSC, PAL, and SECAM international video standards, as well as the monitor display formats listed below. To project images from a computer, set the computer's video card at a refresh rate (vertical frequency) compatible with the projector; see the table below for compatible formats. Some images are automatically resized to display in the projector's native resolution (480p). Also, the frequencies of some computers may not allow images to display correctly; see your computer's documentation.

Mode	Refresh Rate (Hz)	Resolution
HDTV (720p)	60	1280 × 720*
HDTV (1080i)	60	1920 × 1080*
HDTV (1080i)	50	1920 × 1080*
SDTV (480i)	60	640 × 480
SDTV (480p)	60	640 × 480
SDTV (575p)	50	768 × 576
SDTV (575i)	50	768 × 576
VGAEGA	70	640 × 350*
VGA—60	60	640 × 480*
VESA—72	72	640 × 480*
VESA—75	75	640 × 480*
VESA—85	85	640 × 480*
SVGA—56	56	800 × 600*
SVGA—60	60	800 × 600*
SVGA—72	72	800 × 600*
SVGA—75	75	800 × 600*
SVGA—85	85	800 × 600*
XGA—43i	43	1024 × 768*
XGA—60	60	1024 × 768*
XGA—70	70	1024 × 768*
XGA—75	75	1024 × 768*
XGA—85	85	1024 × 768*
MAC13	67	640 × 480*
MAC16	75	832 × 624*
MAC19	75	1024 × 768*
MAC19—60	59	1024 × 768*
MAC21	75	1152 × 870*
NTSC	60	—
NTSC 4:43	60	—
PAL	50	—
N-PAL	50	—
M-PAL	60	—
PAL—60	60	—
SECAM	50	—

* Resized to native resolution

FCC Compliance Statement

For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For Canadian Users

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Declaration of Conformity

According to 47CFR, Part 2 and 15 for Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers:

We:	Epson America, Inc.
Located at:	3840 Kilroy Airport Way MS 3-13 Long Beach, CA 90806 Telephone: (562) 290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name:	Epson
Type of Product:	Projector
Model:	EMP-TW10H
Marketing Name:	PowerLite-Home 10+

Epson America, Inc. Limited Warranty

What Is Covered: Epson America, Inc. ("Epson") warrants to the original end user customer that the Epson product enclosed with this limited warranty statement, if purchased new and operated only in the United States or Canada, conforms to the manufacturer's specifications and will be free from defects in workmanship and materials for a period of two (2) years from the date of original purchase (except that the warranty period is 90 days for projector lamps). For warranty service, you must provide proof of the date of original purchase.

What Epson Will Do To Correct Problems: Should your Epson projector require service during the warranty period, Epson will, at its option, exchange or repair the projector without charge for parts or labor. If Epson authorizes an exchange for the defective unit, Epson will ship a replacement projector to you, freight prepaid, to an address in Canada or the U.S. (excluding Puerto Rico and U.S. Possessions). Shipments to other locations will be made freight collect. You are responsible for securely packaging the defective unit and returning it to Epson within five (5) working days of receipt of the replacement. Epson requires a debit or credit card number to secure the cost of the replacement projector in the event that you fail to return the defective one. If your projector is being repaired by carry-in warranty service, please bring the product securely packaged in its original container or an equivalent to your Epson Dealer or Epson Customer Care Center. Epson will, at its option, repair or replace on an exchange basis the defective unit, without charge for parts or labor. When warranty service involves the exchange of the product or of a part, the item replaced becomes Epson property. The exchanged

product or part may be new or previously repaired to the Epson standard of quality, or, at Epson's option, may be another model of like kind and quality. Exchange or replacement products assume the remaining warranty period of the product covered by this limited warranty, except that each replacement lamp carries the limited 90-day warranty stated above.

What This Warranty Does Not Cover: This warranty covers only normal use of the product in the United States and Canada. 24-hour-per-day use of this product causes unusual strain and is not considered normal use. This warranty does not cover consumables (e.g., fuses), other than lamps. This warranty does not apply to refurbished or reconditioned products, and this warranty is not transferable. Epson is not responsible for warranty service should the Epson label or logo or the rating label or serial number be removed or should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, improper electrical current, software problems, interaction with non-Epson products, or service other than by an Epson Authorized Servicer. Postage, insurance, or shipping costs incurred in presenting your Epson product for carry-in warranty service are your responsibility. If a claimed defect cannot be identified or reproduced in service, you will be held responsible for costs incurred.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SOME LAWS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES. IF THESE LAWS APPLY, THEN ALL EXPRESS AND IMPLIED WARRANTIES ARE LIMITED TO THE WARRANTY PERIOD IDENTIFIED ABOVE. UNLESS STATED HEREIN, ANY STATEMENTS OR REPRESENTATIONS MADE BY ANY OTHER PERSON OR FIRM ARE VOID. EXCEPT AS PROVIDED IN THIS WRITTEN WARRANTY, NEITHER EPSON AMERICA, INC. NOR ITS AFFILIATES SHALL BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR INABILITY TO USE THE EPSON PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY. IF THE REMEDY ABOVE FAILS, EPSON'S ENTIRE LIABILITY SHALL BE LIMITED TO A REFUND OF THE PRICE PAID FOR THE EPSON PRODUCT COVERED BY THIS LIMITED WARRANTY.

In Canada, warranties include both warranties and conditions.

Some jurisdictions do not allow limitations on how long an implied warranty lasts, and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.This warranty gives you specific legal rights, and you may also have other rights, which vary from jurisdiction to jurisdiction.

To locate the Authorized Epson Servicer nearest you, call the Epson Connection[SM] at (800) 637-7661 + PIN or (562) 276-4394 in the U.S. and (905) 709-3839 in Canada, or write to: Epson America, Inc., P.O. Box 93012, Long Beach, CA 90809-3012.

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